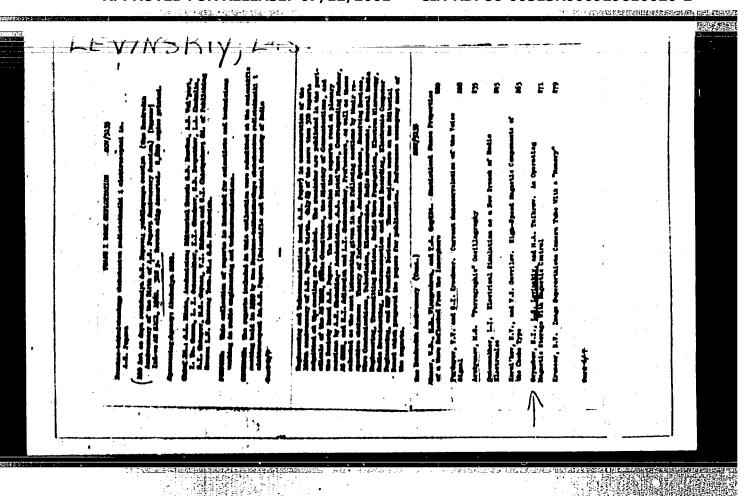
#### "APPROVED FOR RELEASE: 07/12/2001

#### CIA-RDP86-00513R000929610020-2

I. 15222-66 ENT(d)/ENP(1) IIIP(d) BEVIA ACC NR. AP6000040 SOURCE CODE: SOURCE CODE: UR/0315/65/000/007/0031/0033 AUTHOR: Levinskiy, L.S.; Tsukhay, A.N. ORG: none TITLE: Methods of designing memories with single-action recording of iterative information SOURCE: Nauchno-tekhnicheskaya informatsiya, no. 7, 1965, 31-33 TOPIC TAGS: computer memory, computer technology, information storage and retrieval ABSTRACT: A great deal of attention is currently being paid to the design of memories capable of storing information in the binary-code form and producing the sought word not by means of an address, but by the content of the sought word, i.e., "associative memory." This article examines memories in which the convenience of handling variable length information series and the elimination of the excess of the stored information is provided by the use of special recording and reading programs. A variation of an associative memory is described in which the storing device (designed in the form of a pyramid binary coder) automatically provides single-action recording of iterative information. Orig. art. has: 5 figures. SUBM DATE: 13Mar65 / ORIG REF: 001 / OTH REF: 003 UDC: 681.142.07



APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610020-2"

S/194/61/000/008/011/092 D201/D304 30486

9,7140

TITLE:

Gryaznov, N.I., Levinskiy, L.S. and Tsibrov, A.A.

AUTHORS:

An operational magnetic memory apparatus with mag-

netic control

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 15, abstract 8 Bl38 (V sb. 100 let so dnya rozhd. A.S. Popova, M., AN SSSR, 1960, 271-278) PERIODICAL:

It is pointed out that the main source of unreliability of modern operational magnetic memories is the great number of valves or transistors in the address storage, shifting and readout circuits. The fundamental results are given of work carried out at the Electrical Analogue Laboratory of VINITI of the AS USSR. The MO3Y-1000 (MOZU-1000) designed at this laboratory has 1024 48-digit numbers. The period time 40  $\mu$  sec, the read-out and regeneration time 6  $\mu$  sec. The control circuits have only 47 vacuum valves (oritime 6  $\mu$  sec. The principle of magnetic control is explained, ginally about 700). The principle of magnetic control is explained,

Card 1/2

Ni

ACCESSION NR: AT4026357

8/0000/62/000/000/0215/0221

AUTHOR: Briling, K. K.; Krivorutskiy, Yu. Kh.; Levinskiy, L. 8.

TITLE: Construction of a large-capacity magnetic operating memory (MOZU)

SOURCE: Konferentsiya po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniyu teksta. Moscow, 1961. Vy\*chisletil\*naya i informatsionnaya tekhnika (Information processing and computer technology); sbornik materialov konferentsii. Moscow, 1962, 215-221

TOPIC TAGS: memory, addressing, circuit design, magnetic memory, switch, commutator

ABSTRACT: The article describes the construction of an address-selection system for a magnetic operational memory device of large capacity and medium speed, built on the "Z" system. The various ways in which this problem might be solved are discussed. The authors indicate as the preferred technique the switching of the currents from a single source over selected branches through the use of current commutation devices (switches). The work begun in 1957 at the Laboratoriya elektromodelirovaniya (Electrosimulation Laboratory) on the design of an operating magnetic memory with magnetic control led, in 1959, to the creation of the MOZU-1000. The experience acquired in this

Cord 1/8

ACCESSION NR: AT4026357

work demonstrated the operability and reliability of magnetic control systems; in this connection, the decision was made to continue this work in the development of a largecapacity magnetic operating memory. In the matter of selecting the control system, the authors compare two versions of address commutators: 1) a commutator using magnetodiode keys; 2) a commutator using boundary transformers. Both versions are discussed and analyzed in the article. With regard to the magneto-diode key type switch it is shown that the power of this device is basically determined by the switching of unselected cores by switching and zero channels and depends on the cross section of these channels; in turn, the section is determined by the number of output windings. After reaching a certain optimum value, the section begins to increase as the number of output turns increases. The second version (using boundary transformers) is also shown to suffer from a substantial defect - high rate of power consumption - because of the presence of a large number of passive elements. As a result, it was decided to use a third version of the address commutator, with a semiconductor triode operating under saturation as the switching element. This technique is described in some detail and it is shown that the channel current source can be very substantially simplified - one GU-50 tube instead of the 10-12 needed in the other versions, with the feed voltage capable of being lowered to 300 v, instead of 700-900 v. Orig. art. has: 6 figures and 24 formulas.

ASSOCIATION: None

2/3

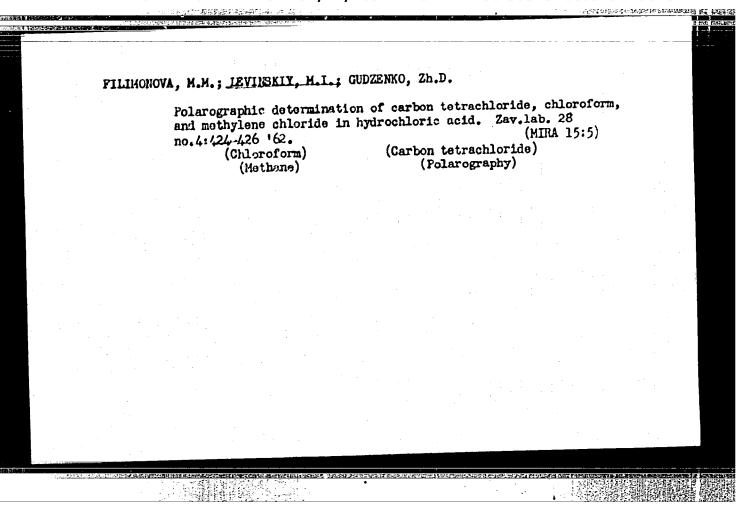
BRILING, K.K., IFVINEKIY, L.S.

Hagnetic memory storage in an informational and logical machine. NTI no.1:32-37 165. (MIRA 18:6)

LEVINSKIY, M.I.; FILIMONOVA, M.M.; GUDZENKO, Zh.D.

Polarographic determination of chloroform and methylene chloride present simultaneously in hydrochloric acid. Zav.lab. 27 no.5:546-548 '61. (MIRA 14:5)

(Chloroform)
(Methane)



S/032/62/028/012/020/023 B104/B186

AUTHORS:

Shatalov, B. I., and Levinskiy, M. I.

TITLE:

A small centrifugal pump for aggressive media

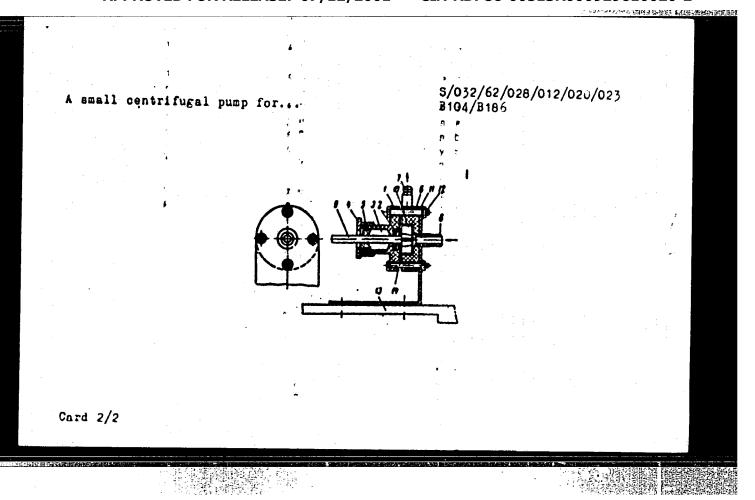
PERIODICAL:

Zavodskaya laboratoriya, v. 28, no. 12, 1962, 1525

TEXT: A centrifugal pump (Fig. 1) was designed consisting of a plexiglass body (1), a ball bearing (2), a stuffing box (3), a sealing device (4), (5), a cover (6) with the mouthpieces (7), (8). The centrifugal wheel is a four-vaned blade wheel with a textolite shaft (9). The pump is designed for operation by an MW-2 (MSh-2) or MW-2 (DShS-2) motor (220 v, 0.5 a, 40 w, 5000 rpm) of the type normally employed to drive sewing machines. The pump has a delivery of 200-250 liters per hour. It has been in use for some time to fill containers and dosing devices with hydrochloric acid and alkali. [Abstracter's note: Complete translation.] There is 1 figure.

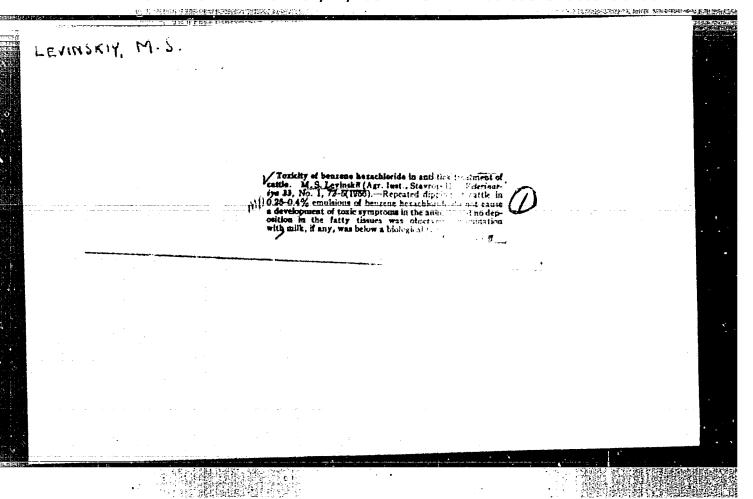
Fig. Centrifugal pump for aggressive media. Legend: (10) blade wheel, (11) fastening plate, (12) pin, (13) support, (14) gasket.

Card 1/2



LEVINSKIY, M.I.; MUKHIN, I.V.; SEREDA, I.P.

Colorimetric method of determining free chlorine in hydrochloric acid. Ukr.khim.zhur. 29 no.1:100-101 '63. (MIRA 16:5) (Chlorine—Analysis) (Hydrochloric acid)



LEVINSKIY, M. B., Cand Vet Sci -- (diss) "Concerning the effect

of hexachloran-creolin emulsion on the organism of cattle and

sheep." Stavropol', 1957. 16 pp. (Stavropol' Agr Inst of Min &

Agr USSR), 130 copies. (KL, 9-58, 121)

- 119 -

LEVINSKIY. Q. [Levins'kyi, 0.]

Let's visit construction workers. Znan.ta pratsia no.10:2
0 '59. (MURA 13:2)

1. Ekskursovod pavil'onu "Budivnitstvo," Vistavka peredovogo dosvidu v narodnomu gospodarstvi URSR.
(Building--Exhibitions)

BERZAK, R.A., LEVINSKIY, O.B.

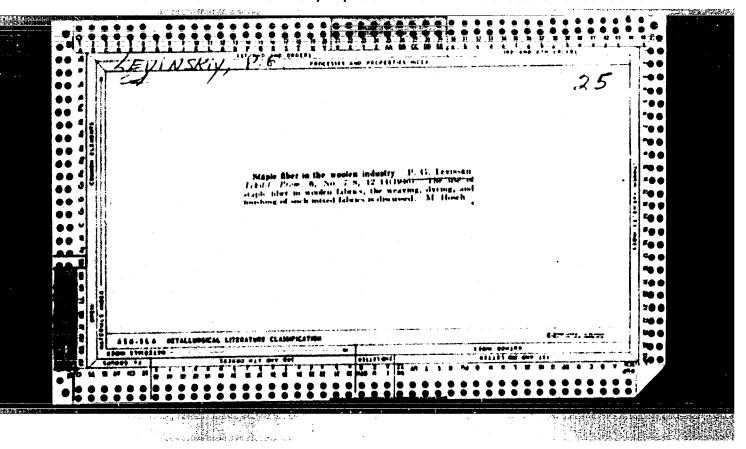
Determination of coal hardness in the Angren deposit.
Trudy Sredu-As.politekh.inst. no.12:274-277 \*61.

(MIRA 18:12)

POPOV, F.S., inzh.; BURKATSKIY, A.P., tekhnik; LEVINSKIY, O.I., inzh.; VERB, A.N., inzh.

Concerning T.P. Musatov's article "Hand hoists." Energetik
10 no.9:29-32 S '62. (MIRA 17:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610020-2"



"Ice Dyeing of Wool," Thesis for degree of Cami. Technical Sci. Sub 29 Jun 50. Moscow Textile Inst

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1950.

AMERIKAN SPAKA KA 1744 DECIMENT

- 1. BOGOGLOVSKIY, B. M.: KARAKOVA, E. D.: LEVINSKIY, P. G.
- 2. DBSR (600)
- 4. Dyes and Dyeing Wool
- 7. Synthesis and investigation of compounds for dyeing wool according to the ice type. Zhur. prikl. khim. 25, no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Uncl.

## LEVINSKIY, S.N.

Improving the quality of leather fleshing knives. Kosh.-obuv.prom. 3 no.2:22-24 F '61. (MIRA 14:4) (Leather industry-Equipment and supplies)

AUTHOR:

NEKRASOVA,G.A., LEVINSKIY,S.V., ORLOV,O. ...

., 89-8-15/26

TITLE:

KONSTANTINOV, M. H.

The Application of Radioactive Isotopes in the Agriculture and Science of the U.S.S.R. (Primenente radioaktivnykh i stabilhykh isotopov i islucheniy v narodnom khoryaystve i nauke v S.S.S.R.,

Russian)

PERIODICAL4

Atomaya Energiya, 1957, Vol 3, Nr 8, pp 162-166 (U.S.S.R.)

ABSTRACT:

In April 1957 an isotope Conference took place in Moscow which was attended by more than 3000 delegates of 1016 different firms and institutes. Altogether, 444 papers were read which were distributed over 4 departments: 1.) The technical and industrial use of isotopes, 2.) Chemistry, 3.) Biology, medicine, agriculture, 4.) The

production of isotopes and y -guns.

ASSOCIATION

Not given

PRESENTED BY:

SUBMITTED:

AVAILABLE:

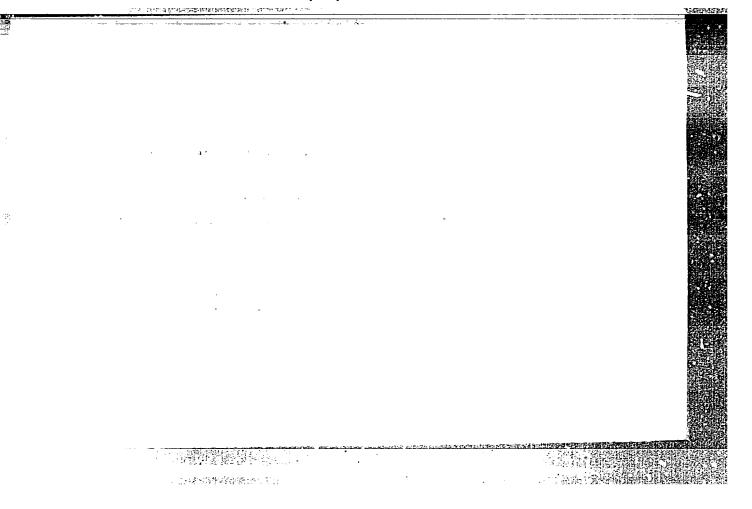
Library of Congress

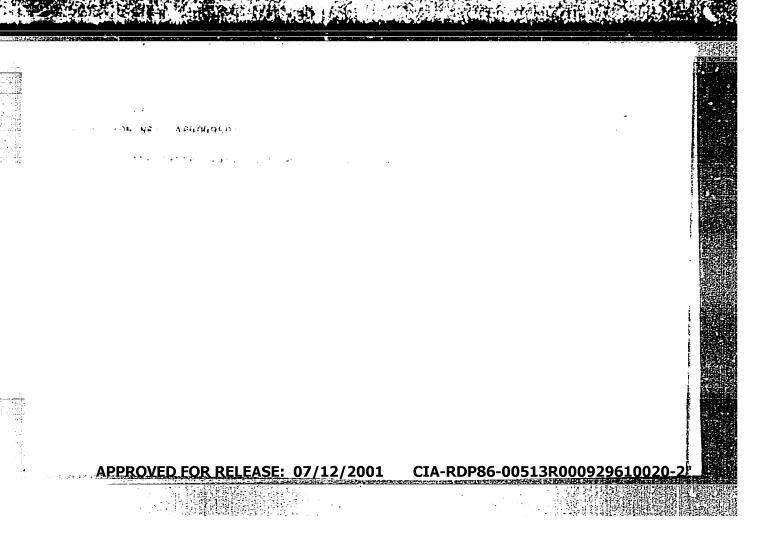
Card 1/1

KURDYUMOV, G.V., akademik, obshchiy red.; NOVIKOV, I.I., obshchiy red.; IEVIUSKIV, S.V., kand.med.nauk, red.; PRUSAKOV, V.N., kand.khim.nauk, red.; SEDOV, V.V., kand.med.nauk, red.; ANDREYENKO, Z.D., red.; MAZEL, Ye.I., tekhn.red.

[Proceedings of the Second International Conference on the Peace-ful Uses of Atomic Energy, Geneva, 1958] Trudy Vtoroi meshdunarodnoy konferentsii po mirnomu ispolisovaniyu atomnoy energii, Zheneva, 1958. (Doklady sovetskikh uchenykh) Moskva, Isd-vo Glav.uprav. po ispolisovaniui atomnoy energii pri Sovete Ministrov SSSR. Vol.6. [Production and application of isotopes] Poluchenie i primenenie isotopov. 1959. 388 p. (MIRA 12:11)

1. International Conference on the Peaceful Uses of Atomic Energy, 2d, Geneva, 1958. 2. Chlen-korrespondent AN SSSR (for Novikov). (Isotopes)





LEDEDINSKIY, A.V., obshchiy red.; LEVINSKIY, S.V., kand.med.nauk, red.; SEDOV, V.V., kand.med.nauk, red.; SHIROKOVA, Z.S., red.; MAZEL', Ye.I., tekhn.red.

[Proceedings of the Second International Conference on the Peaceful Uses of Atomic Emergy, Geneva, 1958] Trudy Vtoroi meshdunarodnoy konferentsii po mirnomu ispol'sovaniyu atomnoy emergii, Zheneva, 1958. (Doklady sovetskikh uchenykh) Moskva, Isd-vo Glav.uprav.po ispol'sovaniui atomnoy emergii.pri Sovete Ministrov SSSR. Vol.5. [Radiobiology and radiation medicine] Radiobiologiia i radiatsionnaia meditsina. 1959. 429 p.

(MIRA 12:11)

1. International Conference on the Peaceful Uses of Atomic Energy, 2d, Geneva, 1958. 2. Chlen-korrespondent AMM SSSR (for Lebedinskiy).

(RADIOBIOLOGY)

LEBEDINSKIY, A. V.; LEVINSKIY, S. Y.; NEFEDOV, Yu. C.

"The general principles in reaction of the organism on the complex environmental factors acting in the cabins of cosmic vehicles.

report submitted for 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

LEBEDINSKIY, A.V.; IEVINSKIY, S.V.; NEFEDOV, Yu.G.

Unique experiment of Soviet scientists. Av. i kosm. 47 no.11:
24-31 N '64. (MIRA 17:11)

YEGGROV, I.A.; KRUCHIEIF, V.I., redaktor; LEVIESKIY, V.B., redaktor; SHPAK, Ye.G., tekhnicheskiy redaktor

[Faolite and its use in the chemical industry] Faolit i ego primenenie v khimicheskoi promyshlennosti. Pod red. V.I.Kruchinina.

Moskva, Gos. nauchno-tekhn. isd-vo khim. lit-ry, 1956. 74 p.

(Korroziia v khimicheskikh proisvodstvakh i sposoby sashchity, no.6)

(Plastice)

(MIRA 9:7)

FOTIBIGH, Ivan Dmitriyevich; LEVINSKIY, V.B., redaktor; SHPAK, Ye.G., tekhnicheskiy redaktor

[Production of nitrogen fertilizer] Proizvodstvo azotnykh udobrenii. Noskva, Oce, nauchno-tekhn. izd-vo thim. lit-ry, 1956. 247 p.

(Hitrogen industries)

(Fertilizers and manures)

(MLRA 10:1)

IVANOVA, Ye.P., starshiy nauchnyy sotr.; ZERHOV, Ye.V., prepodavatel; KIRSANOVA, G.A., nauchnyy sotr.; NOVIKOVA, N.D., nauchnyy sotr.; TARASOVA, N.D.; RISHINA, R.G., starshiy inzh.; LEVINSKIY, V.B., red.; SHPAK, Ye.G., tekhm. red.

[Work organization and establishing technical standards in enterprises manufacturing synthetic fibers] Organizatsiia truda i tekhnicheskoe normirovanie na predpriiatiiakh khimicheskikh volokon. By E.P.Ivanova i dr. Moskva, Gos. nauchmo-tekhn.izd-vo khim. lit-ry, 1961. 175 p. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Ivanova, Kirsanova, Novikova). 2. Moskovskiy tekstil'nyy institut (for Zernov). 3. Nachal'nik normativno-issledovatel'skoy laboratoii po trudu Kalininskogo kombinata (for Tarasova). 4. Gosudarstvennyy komitet po khimii pri Sovete Einistrov SSSR (for Rishina).

(Textile fibers, Synthetic--Production standards)

SEVOST'Y ANOV, Aleksey Grigor'yevich; GINZBURG, L.N., retsenzent; LEVINSKIY, V.P., retsenzent; AKSENOVA, I.I., red.; KNAKNIN, M.T., tekhn. red.

[Methods for analyzing the irregularities of spinning products; characteristics of random functions and their application] Metody issledovaniia nerownoty produktov priadeniia; kharakteristiki sluchainykh funktsii i ikh primenenie. Moskva, Rostekhizdat, 1962. 385 p. (MIRA 15:7)

(Spinning)

15.2220

2808, 1273, 1142

\$/180/61/000/002/011/012

E073/E535

**AUTHORS:** 

Portnoy, K. I., Levinskiy, Yu.V. and Fadeyeva, V.I.

(Moscow)

TITLE:

On the Nature of Interaction of Some High Melting

Point Carbides and their Solid Solutions with Carbon

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1961, No.2, pp.147-149

TEXT: The diagrams of state of metal-carbon systems (the metal being Ti, Zr, Nb, Ta, Hf) have been studied in considerable detail. However, no data are available in literature on the interaction in the pseudo-binary systems TiC-C and NbC-C and as regards ZrC-C, TaC-C and HfC-C it is only mentioned that their diagrams are of a cutectic character. The aim of the work described was to determine the nature of the interaction of such carbides and their solid solutions with carbon. Particular attention was paid to investigating the temperature of appearance of the liquid phase in such systems. The equipment consisted of heating apparatus of 25 kW, the heating being carried out by direct passage of current through a graphite cartridge, inside which the investigated carbide Card 1/6

CONTRACTOR OF THE PROPERTY OF

20271

On the Nature of Interaction ...

**S/180/61/000/002/011/012 E073/E535** 

was placed on a graphite base. The experiments were carried out in an argon atmosphere with a pressure of 5 to 10 mm Hg in excess of the atmospheric pressure. The temperature of appearance of the liquid phase was determined as the minimum temperature at which a thin layer of the carbide powder fused with particles of 10 to 10 p on the graphite base. The fusion was observed visually after cooling the specimens. The temperature was measured by an optical Near the liquid phase temperature the measurements pyrometer. were made at steps of 20 to 30°C, the average accuracy of measuring the temperature being ±50°C. Metallographic analysis has shown that the pseudo-binary systems TiC-C, ZrC-C, NbC-C, TaC-C, HfC-C and the pseudo-ternary systems TiC-ZrC-C, NbC-ZrC-C, NbC-TiC-C, TaC-NbC-C, TaC-TiC-C, TaC-ZrC-C, TiC-HfC-C and ZrC-HfC-C are eutectic in nature. Microphotographs of the eutectic structures of the first five systems are reproduced in Fig.1. X-ray analysis of solidifying drops of the eutectic showed that two phases were present in the specimens, namely, graphite and the appropriate carbide. This confirmed the suitability of the selected method of investigations. Fig. 2 shows the hypothetical diagrams of state of Card 2/6

On the Nature of Interaction ...

S/180/61/000/002/011/012 E073/E535

the pseudo-binary systems TiC-C, ZrC-C, NbC-C, TaC-C and HfC-C. The composition of the sutectic is determined by a method described by Saltykov in his book "Stereometric metallography" published in In investigating pseudo-ternary systems, MeC-Me'C-C, 1958. mixtures of the powders of the individual carbides or mixtures of powders of the appropriate metals were taken as the starting material, whereby the quantities were chosen so as to obtain a solid solution of carbides of the required composition. X-ray analysis of specimens held for durations of 10 sec to 3 min at 2200-3200°C has shown that for all the investigated compositions and all the holding times only one homogeneous phase was present, which indicates a very high speed of carbidization of the metal powders and of their homogenization at these temperatures. Fig. 3 shows the dependence of the lattice period a, kX of homogeneous solid solutions of carbides on their composition, mol.%. These relations are in good agreement with data published by C. Agte et al. (Ref.6), A. Ye. Koval'skiy and Ya. S. Umanskiy (Ref.7) and J. Norton (Ref.8). In the investigated pseudo-ternary systems, the eutectics consist of graphite and a carbide phase of variable composition. It was established that the temperature of formation Card 3/6

On the Nature of Interaction ...

S/180/61/000/002/011/012 E073/E535

of binary eutectics in these pseudo-ternary systems depends to a considerable extent on the composition of the solid solution of the carbides. These dependences are plotted in Fig. 4 (t, °C vs. wt.%). Data were obtained on the fusion temperature and the composition of the eutectics in the systems TiC-C and NbC-C. The fusion temperatures of the eutectics of the ZrC-C and TaC-C systems are in good agreement with the data given in the literature (Refs.2-3). However, the fusion temperature of the eutectic of the system HfC-C was 450°C higher than the value given by P. Cotler and I. J. Kohn (Ref. 4). It was established that the diagrams of state of the pseudo-ternary systems TiC-ZrC-C, NbC-ZrC-C, NbC-TiC-C, TaC-NbC-C, TaC-Ti-C-C, TaC-ZrC-C have a eutectic nature. Furthermore, the dependence was determined of the temperatures of formation of binary eutectics in these systems as a function of the composition of the carbide phase. There are 4 figures and 8 references: 3 Soviet and 5 non-Soviet.

[Abstractor's Note: This is a slightly condensed translation.]
SUBMITTED: September 12, 1960
Card 4/6

S/122/61/000/003/011/013

1.1110

1808, 2208

D241/D305

AUTHORS:

Mukaseyev, A.A., Engineer, Rakovskiy, V.S., Candidate of Technical Sciences, Babich, B.N., and Levinskiy, Yu. V., Engineers

TITLE:

Some problems of ultrasonic machining hard-melting

ceramic materials

PERIODICAL: Vestnik mashinostroyeniya, no. 3, 1961, 63-66

TEXT: Cast heat resisting alloys as well as alloys based on carbides and bonded with nickel or chrome work in temperatures up to 1000°. The alloys based on carbides, nitrides, borons and silicides of rare metals are considered as the most promising by K.I. Portnoy and G.V. Samsonov (Ref. 2: Boronnye splavy, VINITI, 1960). They posses high creep resistance and hardness as well as thermal stability, but it is impossible to machine them by usual methods. Their grinding has a low efficiency, whereas anode machining produces cracks. Ultrasonic machining is, therefore, the most suitable. The main criteria of the former method are the

Card 1/4

**28157** S/122/61/000/003/011/013

D241/D305

Some problems of ultrasonic ...

wear of the tool and material. The accuracy of the machined profile is reduced when the wear of tool is significant. The authors determined experimentally the coefficient K which is the ratio of wear of material to that of the tool. Specimens were prepared from powders of hard melting alloys of sufficient purity and homogeneity. Specimens were obtained by hot pressing in a laboratory lever press, and their porosity varied between 0 to 25% in order to study the effect of porosity on ultrasonic machining. After shot blasting, specimens were weighed to determine their density. The ultrasonic maching was carried out on a cast iron disc and using boron carbide suspension in kerosene. To assess the wear of tool and the value of coefficient K, the concentrator was made according to the exponential law of reduction. Balls from bearings were used as a tool, and their wear proved to be minimum compared to other materials. The spherical form of the ball allowed most accurate data to be obtained. The machined blind holes were measured with a dial indicator. The amplitude of swing of the tool vibrations was 0.10-0.11 mm, and the frequency was

Card 2/4

28157 S/122/61/000/003/011/013 D241/D305

Some problems of ultrasonic ...

18 - 20 Kc. The concentration of abrasive was 40-60%, which is the optimum, and its grain size - no. 150. The static load on the tool reached 400 g. The hardness of the material as well as its brittleness characterize its ability to plastic deformation. It is possible to assume that less ultrasonic energy is required for plastic deformation of harder materials and, therefore, a greater part of the power will be directed to breaking (cutting). Higher porosity of ceramics reduces the cross section of contacts between the particles, which affects the machinability. Comparison of data does not permit a relationship to be established between K and the microhardness of the material. It was noticed that specimens of the same material, but of different density possess unequal coefficients K. Alloys of W2B, MoSi2, ZrC as well as the heat resisting alloy BS-1 with a relative density from 70 to 100% were investigated. The data obtained show that higher porosity improves the ultrasonic machinability. It should be noted that the machinability of ceramics is 5-10 times greater than that of carbides. There are 1 figure, 4 tables and 6 references: 5 Soviet-Card 3/4

**28157** S/122/61/000/003/011/013 D241/D305

Some problems of ultrasonic ...

bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: F.W. Glaser and W. Iwanick, Sintered titanium carbide, "Journal of Metals, vol. 4, no. 4, 1952.

Card 4/4

21 2100

21427 S/080/61/034/007/001/016 D223/D305

AUTHORS:

Portney, K.I., and Levinskiy, Yu.V.

TITELD:

Production of technical zirconium nitride

IEMIODICAL: Zhurnel prikladnov khimii, v. 34, no. 7, 1961, 1413 - 1418

That: The present works deal with possibility of direct withour that of sirconium powder by utilizing the heat of formation of sirconium oxide and nitride to heat the metallic powder to the temperature required for active nitrogenation. Usually in direct ritrogenation the sirconium powder is placed in a quartz tube, heated to the required temperature at a low rate of nitrogen flow. In the present work such a scheme for producing zirconium a tride is given with special emphasis on the quantity of the cride ling agent (No). The water is chosen as a source of oxygen sixed it gives a lover neat effect when compared to enjoy or in. Initially, the zirconium was in a damp state (10-ject, node wire) hence, Card 1/7

24427 \$/080/61/034/007/061/046 D223/D305

Production of technical ...

before charting the furnace, it required prolonged drying in vacuum at 10 -1000, for 2-3 hours. Since nitrogen was dried, the change it and the content of the zirconium powder regulated the stantity of origin in the reaction zone. The volume of the quarter the use was 5 lied direce both inlet and outlet temperature of the Jas was here at 3000, the maximum partial steam pressure was described. Ignoring the hot zone condition, and found to be 31 mg of stantity pressure. The excess water was frozen out. The result of edical ted quantities of vater required for maximum pressure of a turated steam at 300, is given in tabulated form. The calculated values of saturated steam pressure are plotted by the authors against the quantities of water required to heat the powders to 400 and 8000C, and the calculated values of 2r02 and 02 in the final product are plotted against the additions of different quantities of water assuming that the whole of the water reacted with zirconium to form 2r02, i.e.

 $2r + 2H_20 = 2r0_2 + 2H_2$ .

Card 2/7

: 7

Production of technical ...

24427 S/080/61/034/007/001/016 D223/D305

It was suggested that the whole exothermal heat due to the oxygenation and nitrogenation is used up in warming the powder, i.e. there is no heat loss at all, and the maximum rise in temperature for various quantities of oxygenation can be calculated and equated to the heat obtained from the oxygenation and nitrogenation process. The standard enthalpies of water and ZrO2 are 57.8 and 258.5 kcal/miya v metallurgii, II. 1954) hence, the standard enthalpy for following reaction

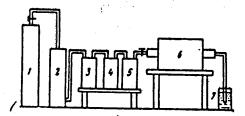
 $Zr + 2H_2O = ZrO_2 + 2H_2 + \triangle H$  is 142.9 kcal/mole. The calculation taking  $C_p = f(T)$  for temperature of 1200°C gives the heat effect of 133.6 kcal/mole. To carry out the experimental trials the set-up given in Fig. 4 was used. The nitrogen from cylinder (1) was dried by passing through tower (2) filled with silica-gel and then through towers (3), (4) and (5) tube in the silica furnace (6). The powder was kept in a molybdenum

Card 3/7

Production of technical ...

24427 S/080/61/034/007/001/016 D223/D305

Fig. 4.



or porcelain boat. The system ended with the water seal (7) which or porcelain boat. The system ended with the water seal(/) which acted as a pressure regulator for nitrogen. To study the rise in powder temperature the set-up, shown in Fig. 5 was used. Through quartz pipe (1) containing damp Zr powder and placed inside silica furnace (2), nitrogen was passed and a small rise in temperature noted. The thermocouple (3) controlled the temperature of the tube and temperature of the powder itself by a Pt/Pt-Ro thermocouple in a ceramic cover (4). Since the mass of powder was small (30 g), the

Card 4/7

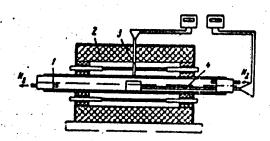
60

4.0

Production of technical

24427 \$/080/61/034/007/001/016 D223/D305

Fig. 5.



heat used to raise the temperature of the ceramic resulted in a low temperature recorded by the thermocouple. The results are given in Fig. 6. The effect of the quantity of water, heating temperature and particle size of the powder on achieving the critical exidation rates was studied and the results are given in graphic and tabulated from. The conclusion drawn is that heating damp Zr powder at 450-6000C in the nitrogen current for 15 mins. would

Card 5/7

45

30

5.

2山27 S/080/61/034/007/001/016 D223/D305

Fig. 6. Change in temperature of the charge (1) and working space (2) with the time.

Legend: A = temperature °C; B = time, min.

Production of technical ...

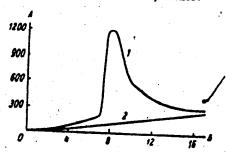


Рис. 6. Изменение температуры шихты (1) и рабочего пространства (2) во времени.

A — температура (°C), B — время (мян.).

Card 6/7

24427

Production of technical ...

S/080/61/034/007/001/016 D223/D305

give a product containing 9.5 - 10.2 wt. % of nitrogen, i.e. an oxynitride of zirconium which can be used instead of pure zirconium nitride. The authors note that zirconium nitride has a large homogeneous region (ZrN<sub>0.56</sub> - ZrN<sub>1.00</sub>) and stable lattice period (a = 4.57 - 4.58 k kh). Hence the product obtained has a varying nitrogen composition and small quantities of dissolved oxygen. The authors thank G.V. Samsonov for his suggestions. There are 7 figures, 3 tables, and 4 Soviet-bloc references.

SUBMITTED: October 14, 1960

X

Card 7/7

91.1 AN 12007 和TETAL NOTHING MARK BREED NO

一个时间,这群和斯林特斯的地方的经济的特别。但是

MUKASETEV, A.A., inzh.; RAMOVSKIY, V.S., kard. tekhn.nauk; BABICH, B.N., inzh.;

LEVINSKIY, Yu.V., inzh.

Machinability of refractory powder-metal materials with ultrasonic waves. Vest.mash. 41 no.3:63-66 Mr \*61.

(Ultrasonic waves.—Industrial applications)

(Powder metal processes)

TOTAL PROSESSION STEERS FRANCISCO

KRESTAN, N.M.; CHAMOV, F.I.; SHCHETININ, V.N.; LEVINSKIY, Yu.V., red.; ZAZUL'SKAYA, V.F., tekhn. red.

[Album of apparatus and equipment for industrial painting shops] Al'bum oborudovaniia i apparatury okrasochnykh tsekhov. Moskva, Goskhimisdat, 1962. 323 p. (MIRA 16:3)

1. Russia (1923- U.S.S.R.)Gosudarstvennyy komitet po khimii. (Painting, Industrial-Equipment and supplies)

PORTHOY, K.I.; LEVINSKIY, Yu.V.

Interaction in systems high-melting metals - carbon - nitrogen.

Issl. splav. tsvet. met. no.4;279-285 \*63. (MIRA 16:8)

(Ceramic metals-Thermodynamic properties)

FORTNOW, K.I.; LEVINSKIY, Yu.V. (Moscow)

High temperature equilibrium of the reaction HfN + C HfC + 1/2 N<sub>2</sub>. Zhur. fiz. khim. 37 no.11:2467-2473 N.63. (MIRA 17:2)

ACCESSION NR: AP4005444

(4) 医自己性神经细胞素神经经验的现在形式的

8/0076/63/037/012/2627/2634

AUTHOR: Portnoy, K. I. (Hoscow); Levinskiy, Yu. V. (Hoscow)

TITLE: Study of the high-temperature equilibrium of the reversible reaction between TiN + C and TiC +  $1/2N_2$ 

SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 12, 1963, 2627-2634

TOPIC TAGS: high temperature refractory, refractory material, refractory carbide, refractory nitride, titanium carbide, titanium nitride, high temperature equilibrium, titanium carbonitride formation, activation energy, equilibrium constant, solid phase diffusion

ABSTRACT: The equilibrium compositions and lattice parameters of the TiC-TiN solid solutions have been determined in the 1480—2480C range at a nearly atmospheric nitrogen pressure. A series of powdered samples of 1) titanium carbide, 2) titanium nitride and carbon black in a 2:1 ratio, and 3) titanium and carbon black in a 2:1 ratio were heated simultaneously in a stream of nitrogen for 15 min to 32 hr at the desired temperature and then cooled rapidly. The reaction products were analyzed chemically and by x-ray. The x-ray powder patterns

Card 1/32

# ACCESSION NR: AP4005444

were obtained with URS-70 and URS-50I equipment; the lattice parameters were measured in a KROS-1 chamber. The x-ray composition data are shown to be more accurate than the chemical data. The good agreement of the lattice-parameter data obtained with different starting ment of the lattice-parameter data obtained with different starting materials indicated that a state of equilibrium had been reached within the 1700-2480C range. X-ray data revealed that intragranular diffusion is the limiting factor in the equilibration process in either direction. Nearly pure TiN was obtained in the reaction of titanium with nitrogen and carbon after 4 hr at 1480C. Thermodynamic calculations show 1) that the investigated reaction can be described by the equation:

 $[TiN] + C \ddagger [TiC] + 1/2N_2$  (1)

and 2) that the calculated equilibrium constant (K<sub>p</sub>) is in satisfactory agreement with the experimentally determined K<sub>p</sub> for reaction (1). The empirical temperature dependence of K<sub>p</sub> ( $\log$  K<sub>p</sub> = -(5600/T) +2.78) has thus been verified. The activation energy of carbonitride formation from TiC and nitrogen was calculated from the experimental straight-line plot of  $\ln(1/\tau) = f(1/T)$ , where  $\tau$  is the time necessary to reach equilibrium. Orig. art. has: 2 tables and 6 figures.

SHATENSHIEYN, A.I., prof.; VYRSKIY, Yu.F., kand. knim. nauk; PRAVIKOVA, N.A., kand. tekhn. nauk; ALIKHANOV, P.P., kand. khim. nauk; ZHDANOVA, K.I., kand. khim. nauk; IZYUMNIKOV, A.L., mlad. nauchn. sotr.; LEVINSKIY, Yu.V., red.

[Practical laboratory manual on the determination of the molecular weights and molecular weight distribution of polymers] Prakticheskoe rukovodstvo po opredeleniu molekuliarnykh vesov i molekuliarno-vesovogo raspredeleniia polimerov. [By] A.I.Shatenshtein i dr. Moskva, Khimiia, 1964. 188 p. (MIRA 18:2)

VOROB'YEV, Nikolay Konstantinovich; GOL'TSSHMIDT, Vladimir Avgustovich [deceased]; KARAPET'YANTS, Mikhail Khristoforovich; KISELEVA, Vera Leonidovna; KRASNOV, Konstantin Solomonovich; LEVINSKIY, Yu.V., red

[Laboratory work in physical chemistry] Praktikum po fizicheskoi khimii. Izd.3., perer. i dop. Moskva, Khimiia, 1964. 383 p. (MIRA 18:4)

ACCESSION NR: AP4040474

8/0226/64/000/003/0109/0113

AUTHOR: Arabey, B. G. (Hoscow); Salibekov, S. Ye. (Hoscow); Levinskiy, Yu. V. (Hoscow)

TITLE: Ignitability of certain powder materials

SOURCE: Poroshkovaya metallurgiya, no. 3 (21), 1964, 109-113

TOPIC TAGS: metal powder, metal powder ignition, metal powder combustion, refractory compound ignition, zirconium ignition, niobium ignition, tantalum ignition, molybdenum ignition, tungsten ignition, titanium ignition, iron ignition, boron ignition, boride ignition, carbide ignition

ABSTRACT: Ignition temperature and the nature of combustion of some refractory metal, carbide, and boride powders have been determined in an effort to establish safe handling procedures for these materials. Tested powders had a grain size of 3-10 µ, the one most frequently used in powder metallurgy. Heating was done either in a furnace in an air atmosphere or by a point source (a nickrome spiral) brought into

Cord 1/2

#### ACCESSION NR: AP4040474

contact with powder. It was found that the smaller the powder grain size, the more pyrophoric the powder. In the furnace, at grain sizes tested, powders of sirconium ignited at 270C, niobium at 290C, tantalum at 290C, molybdenum at 310C, tungsten at 410C, titanium at 520C (with a flash), nickel at 470C, iron at 470C (flash at 630C), and boron at 570C (with a flash). With a point heat source the ignition temperatures were generally higher than those obtained with the furnace, the difference varying from 10C for boron to 220C for molybdenum. Only iron ignited at 350C. Chromium and nickel remained intact at point source temperatures up to 1000C. Borides (TiB2, ZrB2, CrB2, HfB2, SiB6, B4C) do not ignite under 1100C; zirconium, hafnium, niobium, and tungsten carbides have an ignition point ranging from 760 to 1000C. Orig. art. has: 2 figures and 16 table.

ASSOCIATION: none

SUBMITTED: 21Feb63

DATE ACQ: 06Jul64

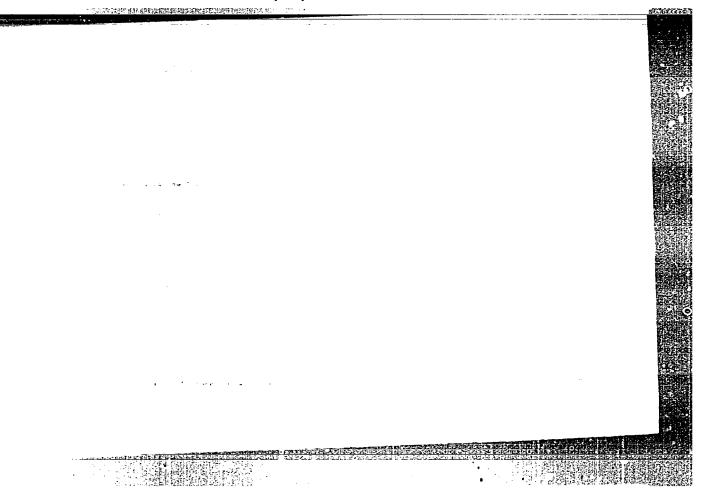
ENCL: 00

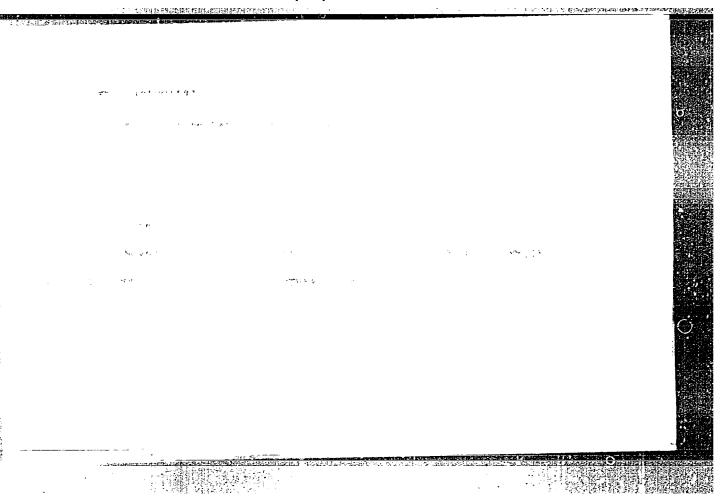
SUB CODE: MM :1A

NO REF SOV: 005

other: 003

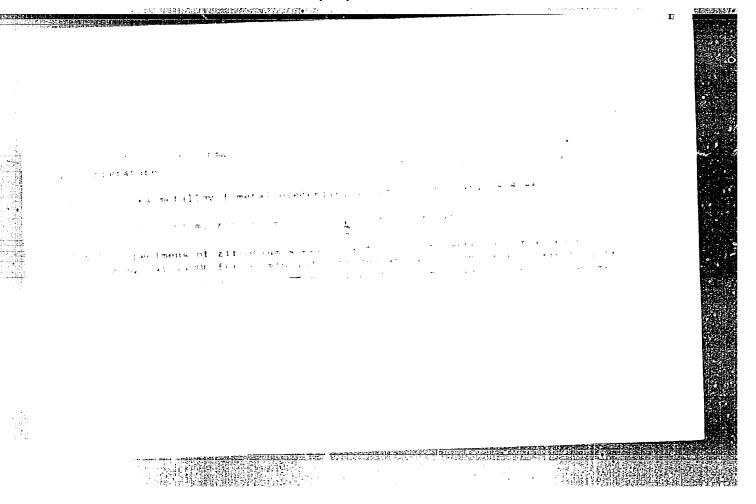
Card 2/2

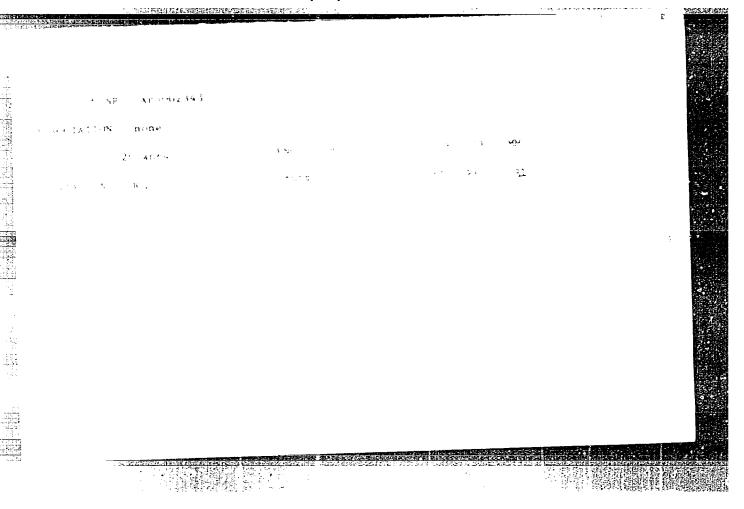




ARABEY, B.G. (Moskva); LEVINSKIY, Yu.V. (Moskva); SALIBEKOV, S.Ye. (Moskva)

Spontaneous combustion and pyrophoric properties of certain powder materials. Porosh. met. 4 no.6:110-113 N-D '64. (MIRA 18:3)





8/0032/64/030/006/0725/0726

ACCESSION NR: AP4039254

AUTHOR: Levinskir, Yu. Y.

TITLE: Quantitative x-ray analysis of titanium, mirconium, and hafnium carbonitrides

SOURCE: Zavodskaya laboratoriya, v. 30, no. 6, 1964, 725-726

TOPIC TAGS: titanium carbonitride, zirconium carbonitride, hafnium carbonitride, crystalline lattice parameter, aluminum, silicon, calcium, magnesium, iron, photocamera KROS 1, Tamman furnace

ABSTRACT: Crystalline lattice parameters of zirconium, titanium, and hafnium carbonitrides were measured with the help of a specially developed x-ray procedure to ascertain if the variation of these parameters of solid MeN-MeC solutions follows the linear law. Powdered materials were combined with various amounts of aluminum, silicon, calcium, magnesium, and iron. The samples were nitrogenized in a Tamman furnace at 1700-2300C until a complete homogenization was obtained. Lattice parameters were measured in Cu Kol - radiation with a KROS-1 camera to an accuracy to 0.0005 kX. The accuracy of nitrogen and carbon determination was to 0.2% (by weight) for titanium and to 0.05% for sirconium and hafnium carbonitrides. High-

Card 1/3

ACCESSION WR: AP4039254

517

temperature treatment and the use of high purity nitrogen minimized oxygen content in the samples. This was important for an accurate determination of the sample composition because oxygen forms solid solutions Ti(N,C,0); Zr(N,C,0) and Hf(N,C,0). Solid solutions of carbides and nitrides of hard-to-fuse metals often deviate from the Vegard law, but those of titanium, zirconium, and hafnium were similar in their physical and chemical properties and showed only a small deviation. The results of these experiments were found to agree closely with those of chemical analyses. They sustained entirely the initial linear law postulate, as can be seen in Fig. 1 of the Enclosure. The author believes that a similar quantitative x-ray analysis is applicable to other solid solutions of the isomorphic difficultly fusible carbides and nitrides. Orig. art. has 1 table and 1 figure.

ASSOCIATION: none.

SUBMITTED: 00

DATE ACQ: 18Jun64

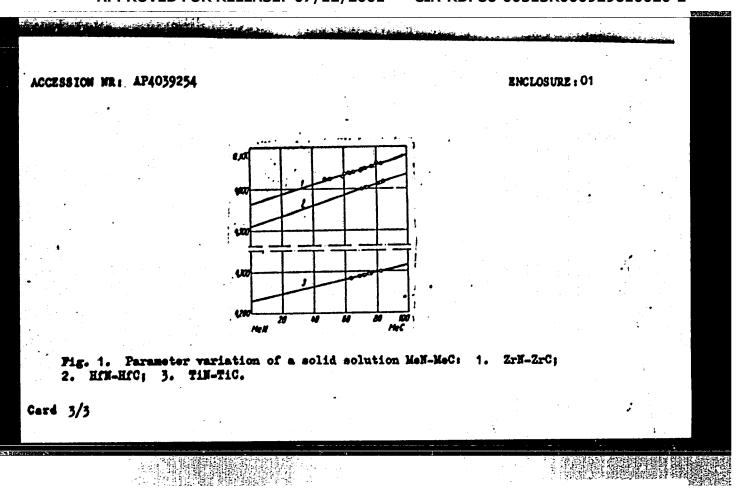
EMCL: 01

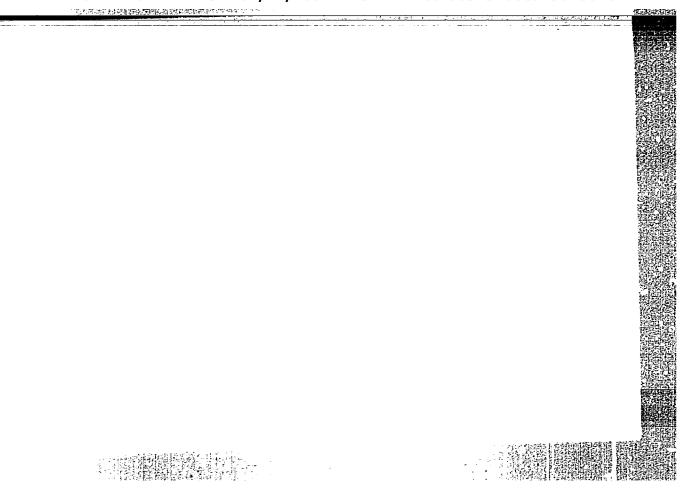
SUB CODE: 144,88

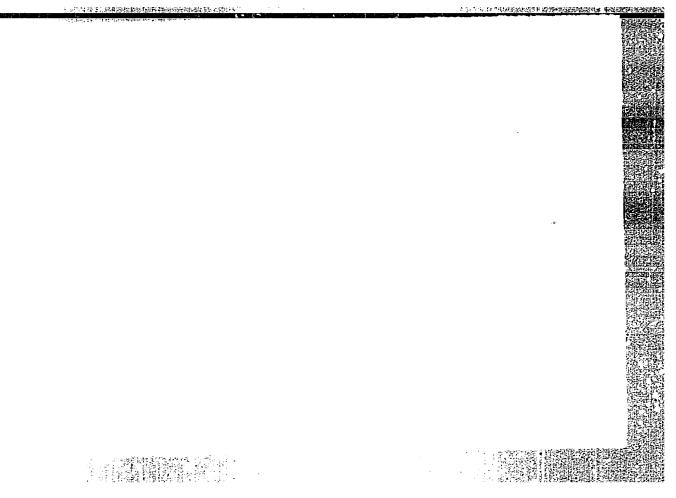
NO REP BOY: 002

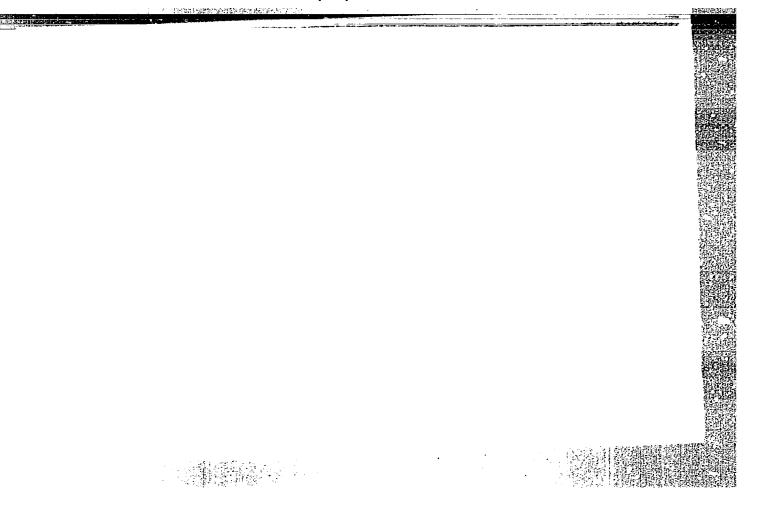
TERE 005

Cord 2/3









LEVIRSKIY Yu.Y. (Moskva); SALIBEKOV, S.Ye. (Moskva); LEVIRSKAYA, M.Eh. (Moskva)

Interaction between vanadium, niobium and tantalum diborides with carbon. Pororh.met. 5 no.11:66-69 N 465. (MIRA 18:12)

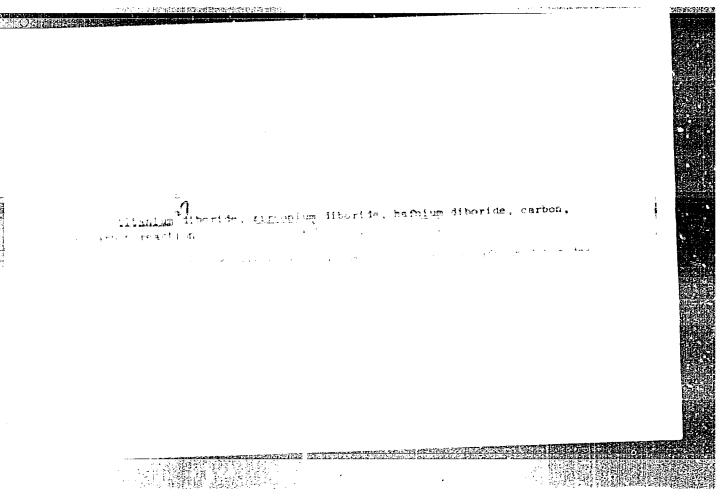
1. Submitted January 4, 1965.

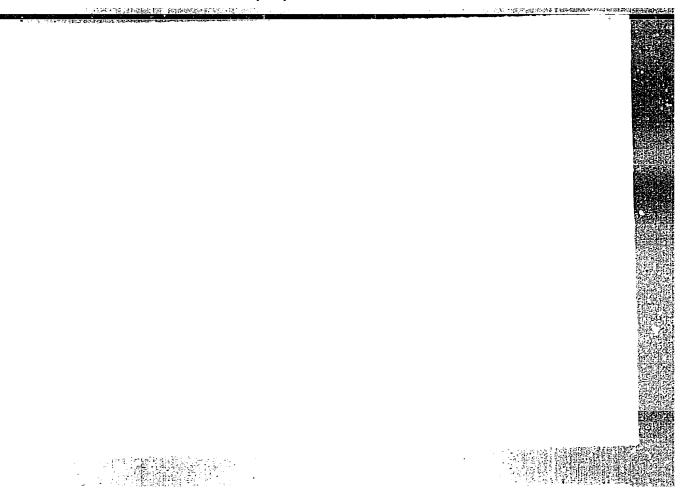
THE PERSON OF TH

L 21205-66 EWT(m)/ETC(f)/EPF(n)-2/EWG(m)/T/EWP(t) IJP(c) JD/WW/JG (N) SOURCE CODE: UR/0226/65/000/012/0036/0038 ACC 111 AP6001471 Portnoy, K. I.; Levinskiy, Yu. V.; Salibekov, S. Ye. AUTHOR: 1-0 ORG: none TITLE: Isothermal saturation of refractory metals with nitrogen and step nitriding SOURCE: Poroshkovaya metallurgiya, no. 12, 1965, 36-38 TOPIC TAGS: metal, refractory metal, annealing, nitrogen, periodic system, annealing, titanium, zirconium, niobium, tantalum, nitriding TABSTRACT: The article deals with studies of optimal conditions for nitriding of compact samples of group IV and V metals of D. I. liendeleyev's periodic system. The effect of the rate of temperature rise during isothermal annealing of samples in a nitrogen medium on the nitriding process was investigated. Optimal rates of temperature rise for nitriding of 1-mm thick samples of titanium, zirconium, niobium and tantalum are established, and it is shown that isothermal saturation of group IV and V metals with nitrogen is best carried out in stages. [Based on author's abstract] [HA] SUB CODE: 11/ SUBM DATE: 11Jun65/ ORIG REF: 001/ OTH REF: 005 Card 1/1

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610020-2"

3.	2. 不主席。在1984年中的中国的国际,1985年中,19	SO HE WE
_	L 20666 66 EMP(a)/ETC(e)/EMG(a)/T/EMP(t) TJP(a) JD/WM/JG/AT WH ACC NR. AP6001475 (N) SOURCE CODE: UR/0226/65/000/012/0056/0062	
	AUTHOR: Levinskiy, Yu. V. (Hoscow); Salibekov, S. Ye. (Hoscow); &O Levinskaya, H. Kh. (Hoscow)	
-	ORG: none  7  TITLE: Interaction of chromium, molybdenum, and tungsten borides with	
	SOURCE: Poroshkovaya metallurgiyas no. 12, 1965, 56-62	
:	TOPIC TAGS: chromium alloy, molybdenum alloy, tungsten base alloy, melting point, high temperature effect, lattice parameter, particle interaction, graphite	- 1
	ABSTRACT: The interaction of chromium, molybdenum, and tungsten borides with carbon was investigated. It was found that the systems CrB <sub>2</sub> -C, MoB-C, MoB <sub>2</sub> -C, WB-C, and W <sub>2</sub> B <sub>5</sub> -C are sutsectic. The sutsectic melting points are: 2150, 2570, 2450, 2540, and 2460K, respectively. The existence of the compound Mo <sub>2</sub> BC is confirmed. The compound is table with traspect to carbon up to 2100K, at which temperature the stable with traspect to carbon up to 2100K, at which temperature the liquid phase of formed. The parameters of the lattices of CrB <sub>2</sub> , s-WB, 1iquid phase on the compound in contact with trasphits. Original W <sub>2</sub> B <sub>5</sub> do not change on heating when in contact with traphits. Original CODE: 11, 20/ SUBM DATE: O6Feb65/ ORIGINEF: OO1/ OTH REF: OO4	
***	Cord 1/1'0K	ge manage deserving





E#T(m)/EPF(c)/EPf(n)-//T/cm(t)/-TF(t)/ 5075**-66** SOURCE CODE: UR/0126/65/020/004/0519/0523 ACC NR. AP5027135 AUTHOR: Levinskiy. Yu. V.; Salibekov, S. Ye.; Leninskeya, M. Kh.; Strogonov. Yu. D. ORG: None TITLE: Carbidizing of titanium and zirconium nitrides, SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 4, 1965, 519-523 TOPIC TAGS: carbide, nitride, titanium containing compound, zirconium containing compound, metal diffusion ABSTRACT: The article gives the results of an investigation of diffusion of carbon into titanium and zirconium nitrides at temperatures of 1900-2480°C. The nitrogen content in the samples of titanium nitride was 19.6 wt%, and in the zirconium nitride -- 11.8 wt%. The samples were nonporous and homogeneous; the microhardness did not vary over the cross section and was approximately 1800 kg/mm² for titanium nitride and 1700 kg/mm² for zirconium nitride. The grain size was 0.5 to 1.0 mm. The nitride plates in the charge of calcined lamp black were placed in a graphite holder in a graphite tubular furnace through which argon was circulated at a pressure of 3-5 mm Hg. Temperature measure-UDC: 539.12.172 Card 1/2

L 8075-66 ACC NR: AP5027135

2

THE PROPERTY OF

ments were made by optical pyrometer. The tests on the diffusion of carbon into titanium nitride were made at 1900, 2000, 2100, 2200, and 2300°; those on zirconium nitride at 1930, 2040, 2260, 2370, and 2480°C. Holding time was 15 min. to 6 hours. After carbidizing, the samples were subjected to metallographic analysis, the microhardness was analyzed, and some samples were subjected to layer-by-layer x-ray analysis. The experimental data indicate that in the diffusion of carbon into titanium and zirconium, layers are formed on the nitrides which are close in their structure to titanium and zirconium carbides, in the transition zone between the forming carbide and the basic 27 nitride layer, the concentrations of carbon and nitrogen change sharply. The rate of growth of the carbide layer, at constant temperature, is of a parabolic nature, and the constants of the parabola depend on the temperature in an exponential manner. Orig. art. has:

3 formulas and 5 figures.

SUB CODE: MM/ SUBM DATE: 26Feb65/ ORIG REF: 004/ OTH REF: 000

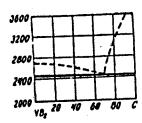
Card 2/200

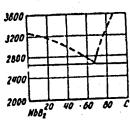
ORG: none  TITLE: Diborides of vanadium, niobium and tantalum and their interaction with carbon  SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 66-69  TOPIC TAGS: boride, vanadium, niobium, tantalum, carbon, metal powder, lattice parameter, powder metal compaction  ABSTRACT: Modern high-temperature engineering often involves contact interaction between transition-metal borides and graphite. This may be exemplified by boride-graphite thermocouples, high temperature furnaces, and the processes of boride production. Hence, the investigation of the interaction between borides (particularly diborides) and graphite is of major practical interest. Accordingly, the authors investigated the interaction between carbon and the diborides of vanadium, niobium and tantalum. The diborides were prepared from bon and the diborides of vanadium, niobium and tantalum. Radiographic analysis revealed	L 46669-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/T/EWP(q)/EWP(v) /EWP(t)/EWP(1)/ETI  ACC NR. AP6009578 (N)  IJP(c) AT/WH/WW/JD/JG  AUTHOR: Levinskiy, Yu. V.; Salibekov, S. Ye.; Levinskaya, M. Kh. (Moscow)	
TOPIC TAGS: boride, vanadium, niobium, tantalum, carbon, metal powder, lattice parameter, powder metal compaction  ABSTRACT: Modern high-temperature engineering often involves contact interaction between transition-metal borides and graphite. This may be exemplified by boride-graphite thermocouples) high temperature furnaces, and the processes of boride production. Hence, the investigation of the interaction between borides (particularly diborides) and graphite is of the investigation of the interaction between the investigated the interaction between carbon and the diborides of vanadium, niobium and tantalum. The diborides were prepared from bon and the diborides of vanadium, niobium and tantalum. Radiographic analysis revealed	ORG: none	
ABSTRACT: Modern high-temperature engineering often involves contact interaction between transition-metal borides and graphite. This may be exemplified by boride-graphite thermocouples) high temperature furnaces, and the processes of boride production. Hence, the investigation of the interaction between borides (particularly diborides) and graphite is of major practical interest. Accordingly, the authors investigated the interaction between carbon and the diborides of vanadium, niobium and tantalum. The diborides were prepared from bon and the diborides of vanadium, niobium and tantalum. Radiographic analysis revealed	SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 66-69	-
tween transition-metal borides and graphite. This may be exemplified by boride graphite thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, thermocouples, high temperature furnaces, and the processes of boride production. Hence, the investigation of the interaction between borides (particularly diborides) and graphite is of major practical interaction between the authors investigated the interaction between carbon and the diborides of vanadium, niobium and tantalum. The diborides were prepared from bon and the diborides of vanadium, niobium and tantalum. Radiographic analysis revealed	parameter, powder metal compaction	
	tween transition-metal borides and graphite. This may be exemplified by boride graphice thermocouples, high temperature furnaces, and the processes of boride production. Hence, the investigation of the interaction between borides (particularly diborides) and graphite is of major practical interest. Accordingly, the authors investigated the interaction between car-	

#### L 46669-66

#### ACC NR: AP6009578

NbB<sub>2</sub>-C and TaB<sub>2</sub>-C. Hence, all the investigated binary systems are pseudobinary, which is in good agreement with the published literature; they all also are eutectic, as revealed by microstructural examination. The lattice parameter of NbB<sub>2</sub> and TaB<sub>2</sub>, when these are heated in contact with graphite or are present in a melt with carbon, differs somewhat from the lattice parameter of the original diborides. This may be attributed to dissolution of carbon in the borides as well as to the displacement of the boride composition to a region with greater saturation by boron. On the basis of these findings it was possible to plot hypothetical constitution diagrams of the pseudobinary systems VB<sub>2</sub>-C, NbB<sub>2</sub>-C and TaB<sub>2</sub>-C, presented in Fig. 1. It is further established that the pressing of the powders of these





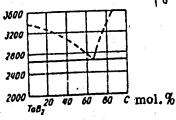


Fig. 1. Hypothetical constitution diagrams of the systems VB<sub>2</sub>-C, NbB<sub>2</sub>-C and TaB<sub>2</sub>-C

Card

2/3

	Trop min 3	,,,,,		temperatures				
Orig. art. has: 2 figu								
SUB CODE: 11, 20, 13,	/ SUBM DA	TE: 04Ja	n65/	ORIG REF:	005/	OTH I	REF: 002	:
002 002 1								
	•							
							,	

LEVINSKY L. Kliniky tuberkulosy v Praze. Bakteriologicke nalezy prileche tuberkulosy streptomycinem, Bacteriological findings in streptomycin-treated cases, Rozhledy v Tuberkulose, Prague 1949, 9/2-3 (175-182) Graphs 2 Tables 3 Illus. 7

The author reports on the bacteriological examination of sputum for tubercle bacilli in 82 patients with pulmonary tuberculosis and 9 patients with tuberculous meningitis treated with streptomycin. (1) In the serial examination of direct slides from the sputum he observed in 42% of the cases the occurrence of conspicuously similar forms of bacilli. In 2 cases there was a massive occurrence of non-acid-fast tubercle bacilli in the sputum. The occurrence of short rods, an effect of streptomycin observed in vitro, was never recorded. (2) In the serial examination by culture of the sputum there occurred in 10% of the cases in the first days of administration of streptomycin a prolonged growth of colonies to 102 days. (3) In no case did the sputum become permanently negative while the patient was having streptomycin treatment. (4) In the cerebrospinal fluid in patients with tuberculous meningitis the bacilli were found in 5 out of 9 cases.

Kvacek - Prague (XV, 4, 8)

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6

## LEVIESKY, L.

Streptomycin therapy of tuberculosis of the oral cavity.

Cas. lek. cesk. 90 no.31:961-968 3 Aug 1951. (CIML 21:1)

1. Of the Tuberculosis Clinic in Prague (Head -- Prof. J. Jedlicka, M.D.).

ERCILEK, Antonin, Dr.; SKOP, Vaclav, Dr.; LEVINSKY, Ladislav, Doc. Rr.; ERCILKOVA, Milada, Dr

pulm. veins.)

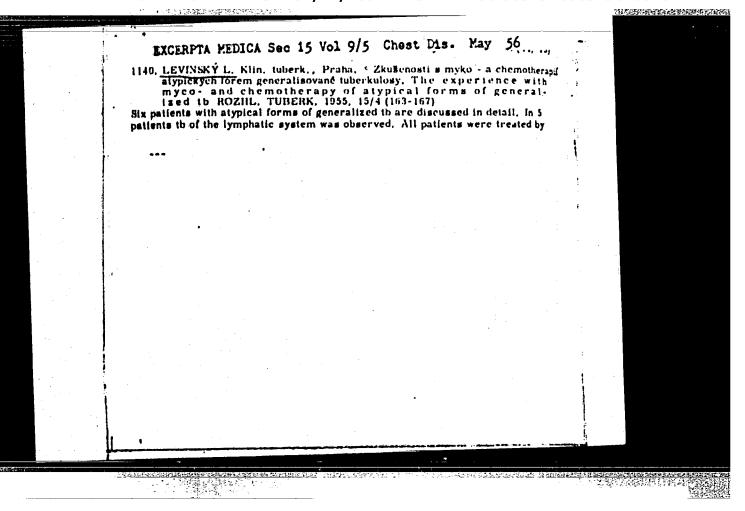
· 注题信息。

Congenital abnormalities of the pulmonary veins. Cas. lek. cesk. 93 no.31-32:864-868 6 Aug 54.

1. IV. interni klinika. Prednosta prof. Dr Bohumil Prusik (for Kroilek, Skop) 2. Plicni klinika. Prednosta prof. Dr Jaroslav Jedlicka (for Levinsky) 3. IV. deteka klinika. Prednosta prof. Dr Fr Blasek (for Kroilkova)

(VEINS, PULMONARY, abnormalities)

(ARMORMALITIES,



# LEVINSKY, L.

POIAK, M.; LEVINSKY, L.; JEDIOCKA, J.; JEDLICKA, V.; ZAK, F.

Operative closure of congenital esophagobronchial fistula in a woman Operative closure of congenital esophagobronchial fistula in a woman with congenital mulmonary cysts & multiglandular insufficiency: nanosomin & geroderma produced by anovarism. Rozhl. chir. 36 no.7: 454-464 July 57.

1. Chirurgicko klinika hygienicke fakulty (prof. Dr. Emerich Polak), plieni klinika (prof. Dr Jeroslav Jedlicka), II, nathologicko-anatomicky university v Praze.

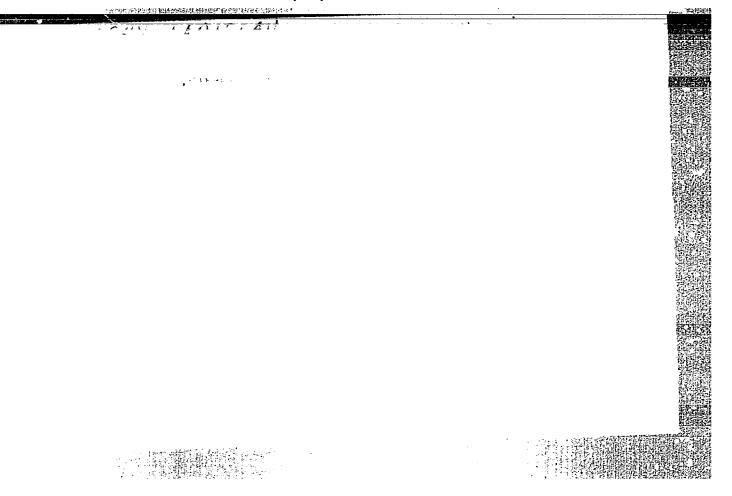
(ESOPHAGUS, fistula conven. esophagobronchiel fistula with congen. pulm. cyrts and nanosomia & geroderma caused by anovarism, surg. (Un.))

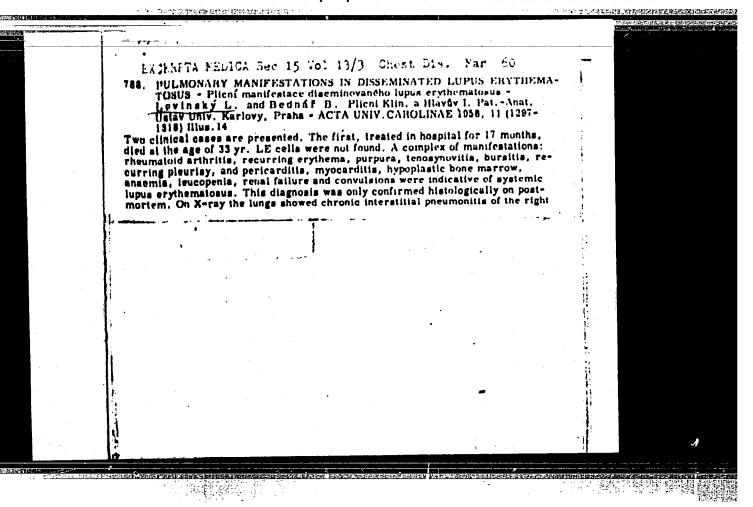
(EROUGHI, fiatula

naus)

(IJHGS, cysts congen. esophagobronchial fistula & nanosonia congen. with congen. esophagobronchial fistula & nanosonia & gercderw caused by anoverism, surg. (Cz))

(OVARIES, abnorma, absence, crusing manosomia & geroderma, with congen. esopherobronchial fistula & congen. pulm. cycta curg. (Cz.)





SKOP, V.; PETRIKOVA, J.; LEVINSKY, L.

Contribution to angiographic investigations on anomalies of the pulmonary arteries and veins. Cook. rentg. 13 no.4:213-219 Aug 59

1. IV. interni klinika (prednosta prof. dr. B. Prusik) a plicni klinika KU (prednosta prof. dr. J. Jedlicka) (PUIMONARY ARTERY, abnorm.) (PUIMONARY VEIMS, abnorm.) (ANGIOGRAPHY)

JEDLICKA, Jaroslav; LEVIESKY, Ladislav

Angiogenic murmur caused by the strangulation of the pulmonary artery by a sclerotic form of pulmonary sarcoidosis. Cas.lek.cesk. 98 no.49/50:1560-1564 4 D 159.

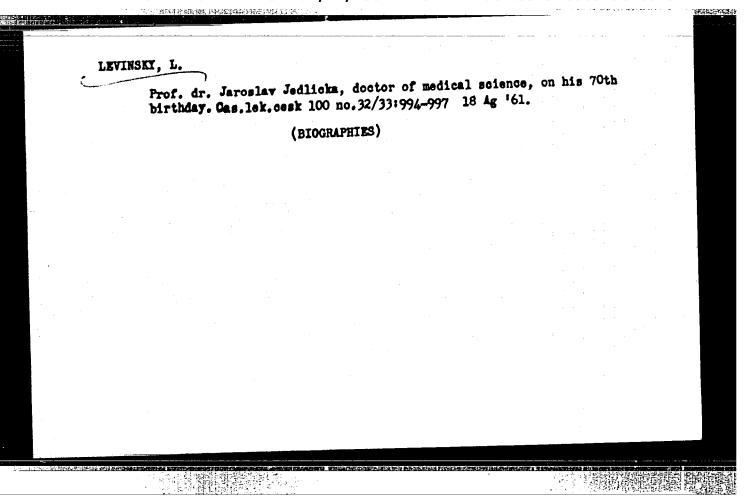
1. Klinika pro tuberkulosu University Karlovy v Prase, prednosta prof.dr. J. Jedlicka.

(SARCOIDOSIS compl.)

(LUM) DISEASES compl.)

(PULMOMARY ARTERY dis.)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000929610020-2"



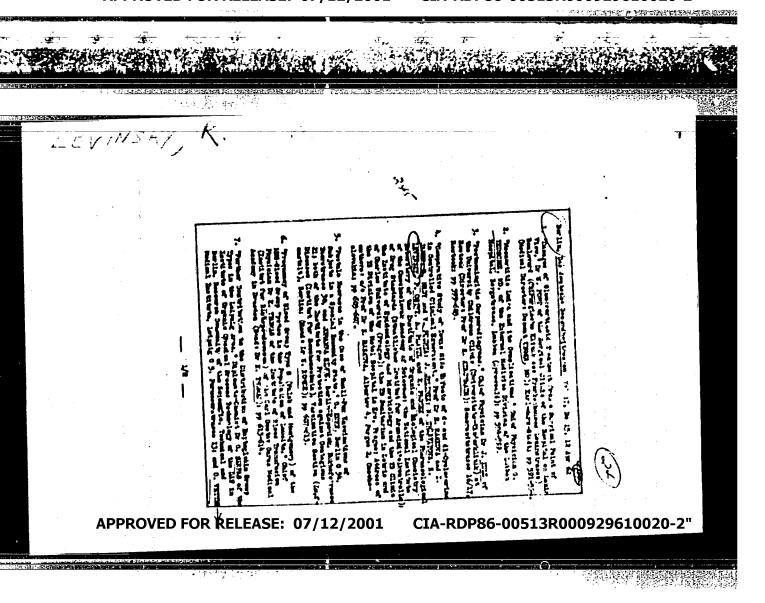
LEVINSKY, L., VOJTISEK, V., PETRIKOVA, J.; ZAKOVA, N.

Biopsy of the lungs in disseminating pneumopathies. Cas.lek.cesk 100 no.32/33:1039-1045 18 Ag \*61.

1. Klinika tuberkulosy, prednosta prof. dr. J. Jedlicka, chirurgicka klinika HLF, prednosta prof. dr. E. Polak, II.patol. anatomicky ustav FVL, prednosta prof. dr. V. Jedlicka.

(LUNG DISEASES pathol)

一部制度的影響



	erind charachar accuration conservation		一 化二氢二氢异氯氢	
LEVINSON, A. M.	usen/Medicine - Tubercalosis (Contd)  2-cc ampoules which contain up to 400 million living bacteria. Research is under way to determine methods for storing this vaccine effectively for long periods.	BOG is the best antituberculosis vaccine available to date. Stresses value of revaccination with this vaccine. Recommends first series prior to 11 months of age, second series during kindergarten age, third during 8 - 12 year age period, and fourth in adolescence. Last two series are administered on the surface of the skin while first two are administered orally. BOG comes in 57/492100	"Antituberculosis Vaccination," A. M. Levinson, h pp "Fel'dsher i Akusber" No l	USSER/Medicine - Tuberculosis Jan 49 Medicine - Vaccination
APPROVED FOR RELEASE: 0	7/12/2001	CIA-RDP86-00513R0	00092961	0020-2"

IZVINSCH a. A. H. ... kandidat tekhnicheskikh nauk.

Welded tubular shafts. Bum.prom.31 no.10:22 0 56. (M

(MIRA 10:1)

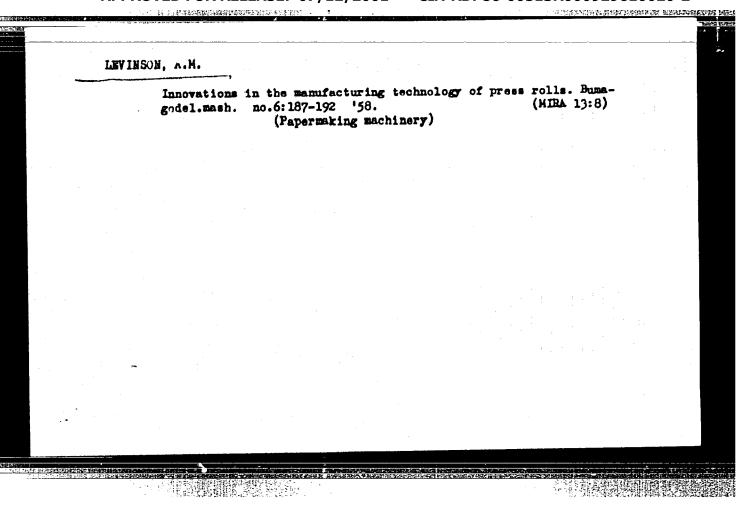
1. Hauchno-issledovatel'skiy institut bummash.
(Papermaking machinery) (Shafts and shafting)

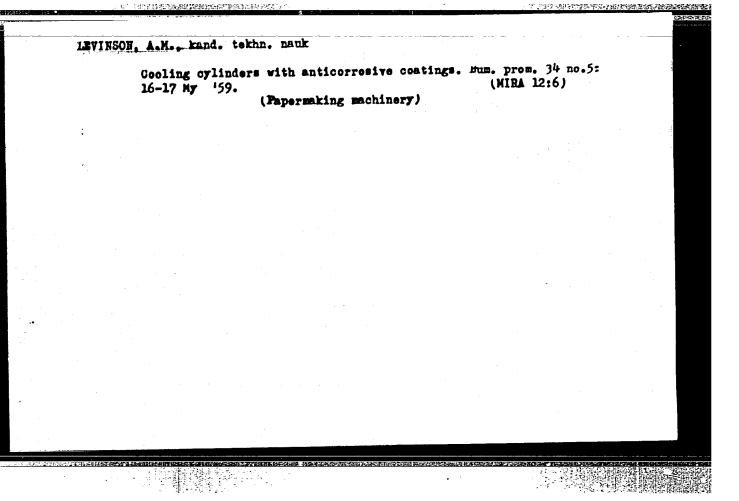
EOZLENKO, Yu.L.; LEVINSON, A.M.; TYMINSKAYA, S.Yu.

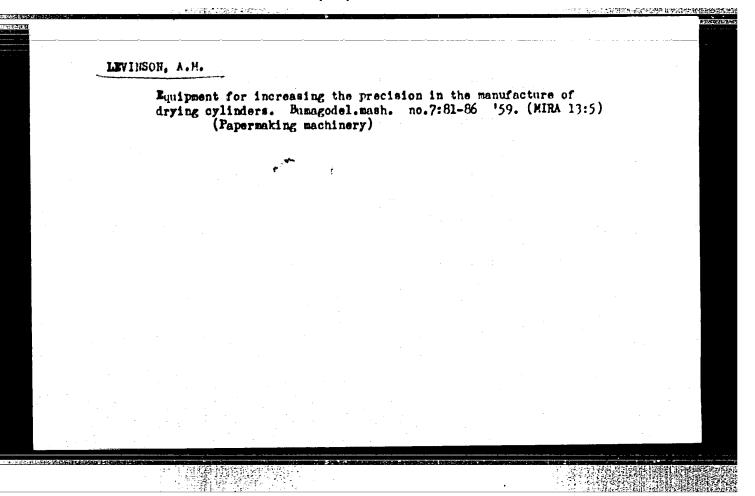
Dynamic balancing of papermsking machine parts. Bunagodel.mash.
no.6:175-186 '56.

(Papermsking machinery)

(Balancing of machinery)









Manufacture of cooling cylinders with a corresion-resistant coating. Bunagodel.mash. no.7:88-96 '59. (MIRA 13:5) (Papermaking machinery) (Protective coatings)

LEVIESON, A.H., kand.tekhn.nauk

Plates of knotter screens made of acid-resistant steel. Bum. prom. 34 no.10:21-22 0 59. (HIRA 13:2)

1. Hauchno-issledovatel'skiy institut buragodelatel'nogo mashinostroyeniya.
(Paper industry--Equipment and supplies)

LEVINSON, A.M.; SVITHEVA, A.V.

Top press rolls with a quarts and rubber covering. Bum.prom. 34 no.12:14-16 D '59. (MIRA 13:4)

l. Mauchno-issledovatel'skiy institut po proyektirovaniyu bumagodelatel'nykh mashin.
(Papermaking machinery)

LEVINSON, A.M.; Prinimali uchastiyes REVIS, I.A.; TYMINSKAYA, S.Yu.; ETKIN,

Is.;

Knotter drums made of acid-resistant steel. Bumagodel. mash. no.8:135-139
'60. (MIRA 14:3)

(Papermaking machinery)

LEVINSON, A.M.; Frinimali uchastiye: ZIGBERMAN, D.I.; TIMINSKAIA, S.Yu.;

ETRIN, Ie.I.; BARGER, I.B.; SLAVSKII, G.N.

Dynamic balancing of flexible tubular rolls. Bumagodel. mash.
no.8:158-163 '60.

1. Nauchno-iseldovatel'skiy institut po proyektirovaniyu bumagodelatel'nykh mashin (for Zigberman, Tyminskaya, Etkiny). 2. Leningradskiy politekhnicheskiy institut im. Kalinina (for Barger, Slavskiy).

(Papermaking machinery) (Balancing of machinery)